

ABSTRACT

Pushing the Limits: New Results from the ISO/IRAS Faint Galaxy Survey

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We present preliminary results for the ISO-IRAS Faint Galaxy Survey (IIFGS). The goal of the survey is to produce a database of infrared-luminous galaxies at redshifts of about 0.1--1 to help explore the AGN-starburst relationship, study the cosmological evolution of luminous infrared galaxies, and identify possible protogalaxy candidates. The candidate list of ~3700 sources has been extracted from the IRAS Faint Source Survey using criteria selecting for faint, infrared-bright galaxies. The ISO observations confirm the IRAS detections, yield sensitive 12 & 90 μ m fluxes, and provide positions to $\sim 6''$ accuracy allowing for unambiguous optical identifications and ground-based follow-up. Our ISOCAM fields have an 80% detection rate, containing sources as faint as 0.15 mJy.